Title (en)

Polymer electrolyte fuel cell

Title (de)

Polymerelektrolytbrennstoffzelle

Title (fr)

Pile à combustible à electrolyte polymère

Publication

EP 1291951 B1 20151104 (EN)

Application

EP 02256260 A 20020910

Priority

JP 2001274606 A 20010911

Abstract (en)

[origin: EP1291951A2] End plates of a fuel cell are conventionally made by cutting metal plates. Therefore, they have problems in that it is difficult to reduce their cost, and they are inconveniently heavy, and they are likely to be corroded by supplied gases and cooling water since they contact such gases and water at inside surfaces of manifold holes of the metal end plates. According to the present invention, the end plates are made of a resin-dominant material, more preferably by injection-molding such material, so that it becomes possible to reduce the cost and weight of the end plates, and the corrosion resistance can be greatly improved by insert-molding the current collecting plates in such a manner that the end plate material extends into a manifold hole of each current collecting plate.

IPC 8 full level

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CPC (source: EP KR US)

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EP2124284A4; EP2608300A1; CN110265696A; FR3047357A1; EP3883031A1; WO2006109133A1; WO2022043342A1; WO2005055348A3; WO2010115495A3; WO2023222351A3; WO2020025456A1

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